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CLAIMS

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1. Use of a plant which has been modified to produce increased levels of flavonol glucosides, or an extract thereof containing flavonol glucosides, in the manufacture of a composition for use in reducing hypertension.

2. Use according to claim 1 wherein the plant or plant extract provides a daily dosage of flavonol glucoside equivalent to from about 0.1 to about 20 mg of flavonol aglycon per kg of body weight.

3. Use according to claim 1 or 2 wherein the plant is a vegetable or fruit.

- 4. Use according to any of claims 1 to 3 wherein the plant is selected from a tomato, onion, apple, blueberry, broccoli, tea and buckwheat.
- 5. Use according to any of claims 1 to 4 wherein the plant has been genetically modified to produce increased levels of flavonol glucosides.
- 6. Use according to claim 5 wherein the genetically modified plant comprises two or more heterologous polynucleotides, each encoding a different transcription factor for flavonoid biosynthsis, stably incorporated into its genome such that the plant's ability to produce flavonol glucosides is increased.
- 7. Use according to claim 6 wherein the genetically modified plant comprises a heterologous polynucleotide sequence encoding the maize C1 transcription factor and a heterologous polynucleotide sequence encoding the maize Lc transcription factor.
- 8. Use according to claim 5 wherein the genetically modified plant comprises a heterologous polynucleotide encoding chalcone isomerase (CHI).

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9. Use according to claim 5 wherein the genetically modified plant expresses chalcone synthase and flavanol synthase simultaneously and optionally expresses chalcone isomerase and/or flavonone-3-hydroxylase.

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- 5 10. Use according to any of the preceding claims wherein the flavonol glucoside is a quercetin glucoside.
 - 11. Use according to claim 10 wherein the quercetin glucoside is isoquercitrin.
- 10 12. Use according to any one of the preceding claims wherein the genetically modified vegetable or fruit is in the form of a vegetable or fruit extract.

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13. Use according to any one of the preceding claims wherein the plant or plant extract is in the form of a paste or other processed form.

14. A food product comprising a plant which has been modified to produce increased levels of flavonol glucosides, or an extract thereof containing flavonol glucosides.

- 15. A health supplement comprising a plant which has been modified to produce increased levels of flavonol glucosides, or an extract thereof containing flavonol glucosides.
- 16. A food product according to claim 14 or a health supplement according to claim 15 wherein the plant has been genetically modified to produce increased levels of flavonol glucosides.
 - 17. A method for the treatment of hypertension in a mammal which method comprises administering to the mammal an effective amount of a plant which has been modified to produce increased levels of flavonol glucosides, or an extract thereof containing flavonol glucosides.